

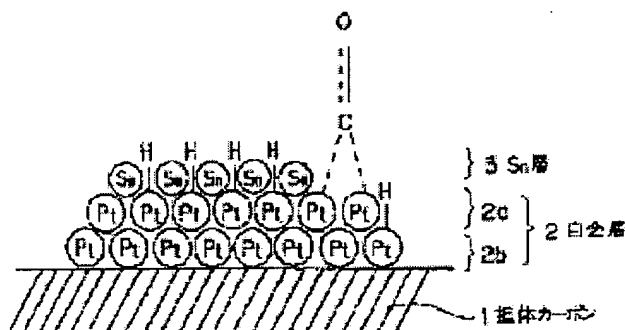
FUEL CELL ELECTRODE AND ITS MANUFACTURE

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Inventor: MAOKA TADANORI
Applicant: TOSHIBA CORP
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Abstract of JP8022827

PURPOSE: To provide a fuel cell electrode having a large reaction surface area, high resistance to various impurities in fuel gas, and an excellent catalytic function.

CONSTITUTION: A carbon supported platinum catalyst is kneaded with a fluoro- binding agent, is then applied onto a conductive porous gas, and baked to form a porous gas diffusion electrode. Next, the porous gas diffusion electrode is immersed for about one hour in a solution obtained by the dissolving of 2%, SnCl₄ and an excess amount of sodium formate in one mol of H₃PO₄, and the electrode is dried and completed. A catalyst layer comprises a support carbon 1, platinum layers 2 supported by the carbon 1, and Sn layers 3 formed on the surface of the platinum layers 2 as base metal element layers. In this case, a plurality of platinum layers 2 are formed with fine particles as units, and a single or plural Sn layers 3 are formed with fine particles as units.



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